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Titolo	Geometry of knowledge for intelligent systems / / Germano Resconi
Pubbl/distr/stampa	Berlin ; ; New York, : Springer, c2013
ISBN	3-642-27972-4
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (X, 282 p.)
Collana	Studies in computational intelligence, , 1860-949X ; ; 407
Classificazione	004510
Disciplina	515.63
Soggetti	Calculus of tensors Intelligent agents (Computer software) - Mathematics Logic, Symbolic and mathematical
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	An Introduction to the Geometry of Agent Knowledge -- Tensor Calculus and Formal Concepts -- Geometry and Agent Coherence -- Field Theory for Knowledge -- Brain Neurodynamic and Tensor Calculus -- Electrical Circuit as constrain in the multidimensional space of the voltages or currents -- Superposition and Geometry for Evidence and Quantum Mechanics in the Tensor Calculus -- The Logic of Uncertainty and geometry of the worlds.
Sommario/riassunto	The book is on the geometry of agent knowledge. The important concept studied in this book is the Field and its Geometric Representation. To develop a geometric image of the gravity , Einstein used Tensor Calculus but this is very different from the knowledge instruments used now, as for instance techniques of data mining , neural networks , formal concept analysis ,quantum computer and other topics. The aim of this book is to rebuild the tensor calculus in order to give a geometric representation of agent knowledge. By using a new geometry of knowledge we can unify all the topics that have been studied in recent years to create a bridge between the geometric representation of the physical phenomena and the geometric representation of the individual and subjective knowledge of the agents.